

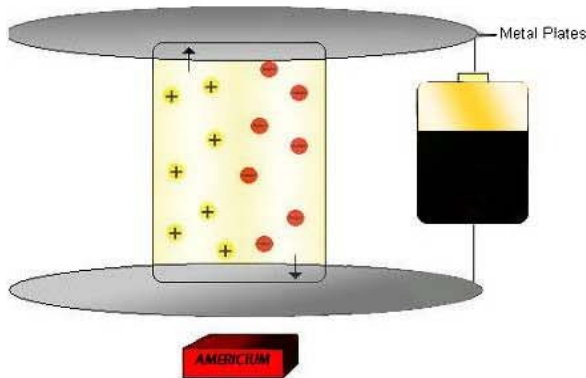


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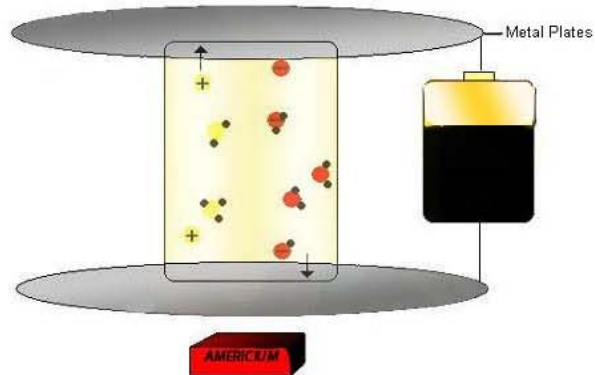


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Your Safe Escape



IN THE SMOKELESS CHAMBER, POSITIVE AND NEGATIVE IONS CREATE A CURRENT AS THEY MIGRATE BETWEEN THE CHARGED PLATES.

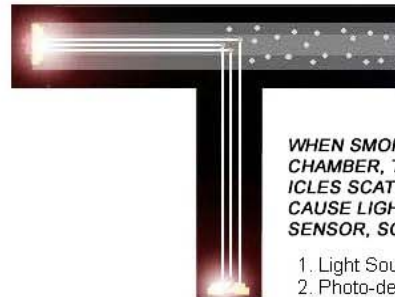


AS SMOKE ENTERS THE CHAMBER, THE PARTICLES FROM THE FIRE NEUTRALIZE THE IONS DISRUPTING THE CONTINUOUS FLOW, SOUNDING THE ALARM.



IN THE NORMAL CASE, THE LIGHT FROM THE SOURCE ON THE LEFT SHOOTS STRAIGHT ACROSS AND MISSES THE SENSOR.

1. Light Source
2. Photo-detector



WHEN SMOKE ENTERS THE CHAMBER, THE SMOKE PARTICLES SCATTER THE LIGHT AND CAUSE LIGHT TO HIT THE SENSOR, SOUNDING THE ALARM.

1. Light Source
2. Photo-detector



Escape Without Delay

Office of the State Fire Marshal
Department of Public Safety
State of Utah
firemarshal.utah.gov